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High-voltage direct current (HVDC) power transmission using voltage sourced converters (VSC)

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CONTENTS

FOREWORD.....	6
1 Scope.....	8
2 Normative references	8
3 Terms and definitions	8
3.1 General.....	8
3.2 Letter symbols.....	11
3.3 Power semiconductor terms	14
3.4 VSC topologies	14
3.5 VSC transmission.....	14
3.6 Operating states	16
3.7 Type tests	16
3.8 Production tests	17
3.9 Sample tests	17
3.10 Insulation co-ordination terms	17
3.11 Power losses.....	17
4 VSC transmission overview	18
4.1 Basic operating principles of VSC transmission	18
4.1.1 The voltage sourced converter as a black box	18
4.1.2 The principles of active and reactive power control.....	19
4.1.3 Operating principles of a VSC transmission scheme	21
4.1.4 Applications of VSC transmission	22
4.2 Design life	22
4.3 VSC transmission configurations	22
4.3.1 General	22
4.3.2 D.C. circuit configurations.....	23
4.3.3 Monopole configuration	23
4.3.4 Bipolar configuration.....	24
4.3.5 Parallel connection of two converters	25
4.3.6 Series connection of two converters	26
4.3.7 Parallel and series connection of more than two converters.....	26
4.4 Semiconductors for VSC transmission	27
5 VSC transmission converter topologies	28
5.1 General.....	28
5.2 Converter topologies with VSC valves of “switch” type	29
5.2.1 General	29
5.2.2 Operating principle	29
5.2.3 Topologies.....	30
5.3 Converter topologies with VSC valves of the “controllable voltage source” type.....	33
5.3.1 General	33
5.3.2 MMC topology with VSC levels in half-bridge topology.....	35
5.3.3 MMC topology with VSC levels in full-bridge topology.....	37
5.3.4 CTL topology with VSC cells in half-bridge topology	38
5.3.5 CTL topology with VSC cells in full-bridge topology	39
5.4 VSC valve design considerations	39
5.4.1 Reliability and failure mode	39

5.4.2	Current rating	39
5.4.3	Transient current and voltage requirements	39
5.4.4	Diode requirements	40
5.4.5	Additional design details	41
5.5	Other converter topologies	41
5.6	Other equipment for VSC transmission schemes	41
5.6.1	General	41
5.6.2	Power components of a VSC transmission scheme	42
5.6.3	VSC substation circuit breaker	42
5.6.4	A.C. system side harmonic filters	42
5.6.5	Radio frequency interference filters	42
5.6.6	Interface transformers and phase reactors	43
5.6.7	Valve reactor	43
5.6.8	D.C. capacitors	44
5.6.9	D.C. reactor	46
5.6.10	Common mode blocking reactor	46
5.6.11	D.C. filter	46
5.6.12	Dynamic braking system	46
6	Overview of VSC controls	47
6.1	General	47
6.2	Operational modes and operational options	47
6.3	Power transfer	48
6.3.1	General	48
6.3.2	Telecommunication between converter stations	49
6.4	Reactive power and a.c. voltage control	49
6.4.1	A.C. voltage control	49
6.4.2	Reactive power control	50
6.5	Black start capability	50
6.6	Supply from a wind farm	51
7	Steady state operation	51
7.1	Steady state capability	51
7.2	Converter power losses	52
8	Dynamic performance	53
8.1	A.C. system disturbances	53
8.2	D.C. system disturbances	54
8.2.1	D.C. cable fault	54
8.2.2	D.C. overhead line fault	54
8.3	Internal faults	54
9	HVDC performance requirements	55
9.1	Harmonic performance	55
9.2	Wave distortion	56
9.3	Fundamental and harmonics	56
9.3.1	Three-phase 2-level VSC	56
9.3.3	Multi-pulse and multi-level converters	59
9.4	Harmonic voltages on power systems due to VSC operation	59
9.5	Design considerations for harmonic filters (a.c. side)	60
9.6	D.C. side filtering	60
10	Environmental impact	60

10.1	General	60
10.2	Audible noise	61
10.3	Electric and magnetic fields (EMF)	61
10.4	Electromagnetic compatibility (EMC)	61
11	Testing and commissioning	62
11.1	General	62
11.2	Factory tests	62
11.2.1	Component tests	62
11.2.2	Control system tests	63
11.3	Commissioning tests / System tests	63
11.3.1	General	63
11.3.2	Precommissioning tests	63
11.3.3	Subsystem tests	64
11.3.4	System tests	64
Annex A	(informative) Functional specification requirements for VSC transmission systems	69
Annex B	(informative) Determination of VSC valve power losses	86
Annex B	(informative) Modulation strategies for 2-level converters	86
Bibliography	89

Figure 1	– Major components that may be found in a VSC substation	10
Figure 2	– Diagram of a generic voltage source converter (a.c. filters not shown)	18
Figure 3	– The principle of active power control	20
Figure 4	– The principle of reactive power control	21
Figure 5	– A point-to-point VSC transmission scheme	21
Figure 6	– VSC transmission with a symmetrical monopole	23
Figure 7	– VSC transmission with an asymmetrical monopole with metallic return	24
Figure 8	– VSC transmission with an asymmetrical monopole with earth return	24
Figure 9	– VSC transmission in bipolar configuration	25
Figure 10	– Parallel connection of two converter units	26
Figure 11	– Symbol of a controllable switch turn-off semiconductor device and associated free-wheeling diode	27
Figure 12	– Symbol of an IGBT and associated free-wheeling diode	27
Figure 13	– Diagram of a three-phase 2-level converter and associated a.c. waveform for one phase	30
Figure 14	– Single-phase a.c. output for 2-level converter with PWM switching at 21 times fundamental frequency	31
Figure 15	– Diagram of a three-phase 3-level NPC converter and associated a.c. waveform for one phase	32
Figure 16	– Single-phase a.c. output for 3-level NPC converter with PWM switching at 21 times fundamental frequency	33
Figure 17	– Electrical equivalent for a converter with VSC valves acting like a controllable voltage source	34
Figure 18	– VSC valve level arrangement and equivalent circuit in MMC topology in half-bridge topology	35
Figure 19	– Converter block arrangement with MMC topology in half-bridge topology	37

Figure 20 – VSC valve level arrangement and equivalent circuit in MMC topology with full-bridge topology	38
Figure 21 – Typical SSOA for the IGBT	40
Figure 22 – A 2-level VSC bridge with the IGBTs turned off	40
Figure 23 – Representing a VSC unit as an a.c. voltage of magnitude U and phase angle δ behind reactance	47
Figure 24 – Concept of vector control	48
Figure 25 – VSC power controller	49
Figure 26 – A.C. voltage controller	50
Figure 27 – A typical simplified PQ diagram	52
Figure 28 – Protection concept of a VSC substation	55
Figure 29 – Waveforms for three-phase 2-level VSC	57
Figure 30 – Voltage harmonics spectra of a 2-level VSC with carrier frequency at 21st harmonic
Figure 31 – Phase output voltage for selective harmonic elimination modulation (SHEM)
Figure 32 – Equivalent circuit at the PCC of the VSC	60
Figure B.1 – On state voltage of an IGBT or free-wheeling diode
Figure B.1 – Voltage harmonics spectra of a 2-level VSC with carrier frequency at 21 st harmonic	87
Figure B.2 – Piecewise linear representation of IGBT or FWD on-state voltage
Figure B.2 – Phase output voltage for selective harmonic elimination modulation (SHEM)	88
Figure B.3 – IGBT switching losses as a function of collector current
Figure B.4 – Free-wheeling diode recovery loss as a function of current

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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USING VOLTAGE SOURCED CONVERTERS (VSC)**

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1 Scope

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HVDC power transmission using voltage sourced converters is known as “VSC transmission”.

The various types of circuit that can be used for VSC transmission are described in the report, along with their principal operational characteristics and typical applications. The overall aim is to provide a guide for purchasers to assist with the task of specifying a VSC transmission scheme.

Line-commutated and current-sourced converters are specifically excluded from this report.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

~~IEC 60633, Terminology for high-voltage direct current (HVDC) transmission~~

IEC 61975, *High-voltage direct current (HVDC) installations – System tests*

IEC 62501, *Voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) power transmission – Electrical testing*

IEC 62747, *Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems*

IEC 62751 (all parts), *Power losses in voltage sourced converter (VSC) valves for high voltage direct current (HVDC) systems*

FINAL VERSION



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CONTENTS

FOREWORD.....	6
1 Scope.....	8
2 Normative references	8
3 Terms and definitions	8
3.1 General.....	8
3.2 Letter symbols.....	10
3.5 VSC transmission.....	10
3.7 Type tests	10
3.8 Production tests	11
3.9 Sample tests	11
3.11 Power losses.....	11
4 VSC transmission overview	12
4.1 Basic operating principles of VSC transmission.....	12
4.1.1 The voltage sourced converter as a black box	12
4.1.2 The principles of active and reactive power control.....	13
4.1.3 Operating principles of a VSC transmission scheme	15
4.1.4 Applications of VSC transmission	16
4.2 Design life.....	16
4.3 VSC transmission configurations	16
4.3.1 General	16
4.3.2 D.C. circuit configurations.....	17
4.3.3 Monopole configuration	17
4.3.4 Bipolar configuration.....	18
4.3.5 Parallel connection of two converters	18
4.3.6 Series connection of two converters	19
4.3.7 Parallel and series connection of more than two converters.....	19
4.4 Semiconductors for VSC transmission.....	19
5 VSC transmission converter topologies	21
5.1 General.....	21
5.2 Converter topologies with VSC valves of “switch” type	21
5.2.1 General	21
5.2.2 Operating principle	22
5.2.3 Topologies.....	22
5.3 Converter topologies with VSC valves of the “controllable voltage source” type.....	25
5.3.1 General	25
5.3.2 MMC topology with VSC levels in half-bridge topology.....	26
5.3.3 MMC topology with VSC levels in full-bridge topology.....	28
5.3.4 CTL topology with VSC cells in half-bridge topology	28
5.3.5 CTL topology with VSC cells in full-bridge topology	28
5.4 VSC valve design considerations	29
5.4.1 Reliability and failure mode	29
5.4.2 Current rating	29
5.4.3 Transient current and voltage requirements	29
5.4.4 Diode requirements	30
5.4.5 Additional design details.....	30

5.5	Other converter topologies	31
5.6	Other equipment for VSC transmission schemes	31
5.6.1	General	31
5.6.2	Power components of a VSC transmission scheme.....	31
5.6.3	VSC substation circuit breaker.....	32
5.6.4	A.C. system side harmonic filters.....	32
5.6.5	Radio frequency interference filters	32
5.6.6	Interface transformers and phase reactors.....	32
5.6.7	Valve reactor	33
5.6.8	D.C. capacitors.....	33
5.6.9	D.C. reactor.....	35
5.6.10	Common mode blocking reactor	36
5.6.11	D.C. filter.....	36
5.6.12	Dynamic braking system.....	36
6	Overview of VSC controls.....	36
6.1	General	36
6.2	Operational modes and operational options.....	37
6.3	Power transfer.....	38
6.3.1	General	38
6.3.2	Telecommunication between converter stations	39
6.4	Reactive power and a.c. voltage control	39
6.4.1	A.C. voltage control	39
6.4.2	Reactive power control	39
6.5	Black start capability	40
6.6	Supply from a wind farm	40
7	Steady state operation.....	40
7.1	Steady state capability	40
7.2	Converter power losses	42
8	Dynamic performance.....	42
8.1	A.C. system disturbances	42
8.2	D.C. system disturbances	43
8.2.1	D.C. cable fault.....	43
8.2.2	D.C. overhead line fault.....	43
8.3	Internal faults	43
9	HVDC performance requirements	44
9.1	Harmonic performance	44
9.2	Wave distortion	45
9.3	Fundamental and harmonics	45
9.3.1	Three-phase 2-level VSC.....	45
9.3.3	Multi-pulse and multi-level converters.....	46
9.4	Harmonic voltages on power systems due to VSC operation	46
9.5	Design considerations for harmonic filters (a.c. side).....	47
9.6	D.C. side filtering	47
10	Environmental impact.....	47
10.1	General	47
10.2	Audible noise	47
10.3	Electric and magnetic fields (EMF)	48
10.4	Electromagnetic compatibility (EMC)	48

11 Testing and commissioning	49
11.1 General	49
11.2 Factory tests	49
11.2.1 Component tests	49
11.2.2 Control system tests	49
11.3 Commissioning tests / System tests	50
11.3.1 General	50
11.3.2 Precommissioning tests	50
11.3.3 Subsystem tests	50
11.3.4 System tests	51
Annex A (informative) Functional specification requirements for VSC transmission systems	55
Annex B (informative) Modulation strategies for 2-level converters	63
Bibliography	66
Figure 1 – Major components that may be found in a VSC substation	9
Figure 2 – Diagram of a generic voltage source converter (a.c. filters not shown)	12
Figure 3 – The principle of active power control	14
Figure 4 – The principle of reactive power control	15
Figure 5 – A point-to-point VSC transmission scheme	15
Figure 6 – VSC transmission with a symmetrical monopole	17
Figure 7 – VSC transmission with an asymmetrical monopole with metallic return	18
Figure 8 – VSC transmission with an asymmetrical monopole with earth return	18
Figure 9 – VSC transmission in bipolar configuration	18
Figure 10 – Parallel connection of two converter units	19
Figure 11 – Symbol of a turn-off semiconductor device and associated free-wheeling diode	20
Figure 12 – Symbol of an IGBT and associated free-wheeling diode	20
Figure 13 – Diagram of a three-phase 2-level converter and associated a.c. waveform for one phase	23
Figure 14 – Single-phase a.c. output for 2-level converter with PWM switching at 21 times fundamental frequency	23
Figure 15 – Diagram of a three-phase 3-level NPC converter and associated a.c. waveform for one phase	24
Figure 16 – Single-phase a.c. output for 3-level NPC converter with PWM switching at 21 times fundamental frequency	25
Figure 17 – Electrical equivalent for a converter with VSC valves acting like a controllable voltage source	26
Figure 18 – VSC valve level arrangement and equivalent circuit in MMC topology in half-bridge topology	27
Figure 19 – Converter block arrangement with MMC topology in half-bridge topology	27
Figure 20 – VSC valve level arrangement and equivalent circuit in MMC topology with full-bridge topology	28
Figure 21 – Typical SSOA for the IGBT	29
Figure 22 – A 2-level VSC bridge with the IGBTs turned off	30
Figure 23 – Representing a VSC unit as an a.c. voltage of magnitude U and phase angle δ behind reactance	37

Figure 24 – Concept of vector control 38

Figure 25 – VSC power controller 38

Figure 26 – A.C. voltage controller 39

Figure 27 – A typical simplified PQ diagram 41

Figure 28 – Protection concept of a VSC substation..... 44

Figure 29 – Waveforms for three-phase 2-level VSC 46

Figure 32 – Equivalent circuit at the PCC of the VSC 46

Figure B.1 – Voltage harmonics spectra of a 2-level VSC with carrier frequency at 21st harmonic..... 64

Figure B.2 – Phase output voltage for selective harmonic elimination modulation (SHEM)..... 65

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